

Title (en)
Dry analytical element for acetaminophen assay

Title (de)
Trockenes analytisches Element für Acetaminophenassay

Title (fr)
Élément analytique sec pour l'essai d'acétaminophen

Publication
EP 0750197 A3 19970507 (EN)

Application
EP 96304621 A 19960621

Priority
US 49344295 A 19950622

Abstract (en)
[origin: EP0750197A2] A spectrophotometric assay for the detection of acetaminophen in aqueous fluids is carried out with a dry analytical element. The element comprises a support having thereon one or more reagent layers containing a first enzyme, aryl acylamidase, to cleave the amide bond of acetaminophen to produce p-aminophenol; and a mild oxidizing agent to oxidize the p-aminophenol so that it couples to a water-soluble coupling agent to form a dye that is read at 670 nm. The assay is precise, accurate on serum and plasma samples, and relatively free from significant interferences. The element also allows measurement over a broad dynamic range.

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G01N 33/52; C12Q 1/34; C12Q 1/26

IPC 8 full level
C12Q 1/26 (2006.01); **C12Q 1/34** (2006.01); **G01N 33/52** (2006.01)

CPC (source: EP)
C12Q 1/34 (2013.01); **G01N 33/523** (2013.01); **G01N 2333/98** (2013.01)

Citation (search report)

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- [AP] WO 9532428 A1 19951130 - BECKMAN INSTRUMENTS INC [US]
- [A] EP 0579202 A1 19940119 - EASTMAN KODAK CO [US]

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EP 0750197 A2 19961227; **EP 0750197 A3 19970507**; **EP 0750197 B1 20020424**; AT E216776 T1 20020515; AU 5592996 A 19970109; AU 713196 B2 19991125; CA 2178048 A1 19961223; CA 2178048 C 20090811; CN 1114103 C 20030709; CN 1155658 A 19970730; DE 69620825 D1 20020529; DE 69620825 T2 20021010; JP 4001953 B2 20071031; JP H09298 A 19970107

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EP 96304621 A 19960621; AT 96304621 T 19960621; AU 5592996 A 19960612; CA 2178048 A 19960603; CN 96110799 A 19960622; DE 69620825 T 19960621; JP 16153596 A 19960621